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SISTEMI
MEDICALI

MEDICAL
IMAGING

Apollo DRF

DR + RF system with Dynamic Flat Panel Detector

One system, Two applications

Apollo DRF goes beyond the separation between radiography and fluoroscopy. The innovative ***Dynamic Flat Panel Detector*** operates as a full digital modality for both high resolution radiography and high frame rate fluoroscopy.

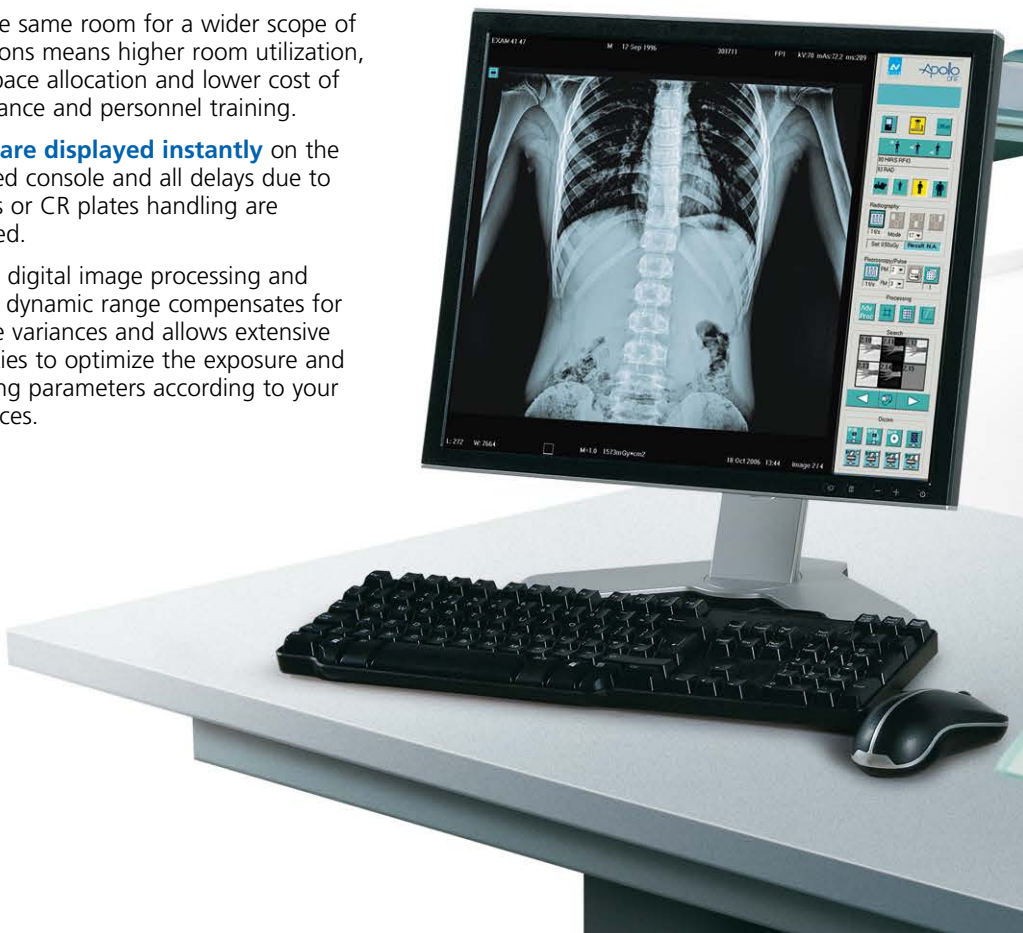
One room, one detector
and one imaging platform are all you need to perform an extensive range of applications that typically require multiple devices when based on legacy equipment.

According to your workload and patient workflow requirements, you can instantly switch from general radiographic studies, to high volume chest exams, trauma exams, or contrast studies such as GI, urological and vascular investigations.

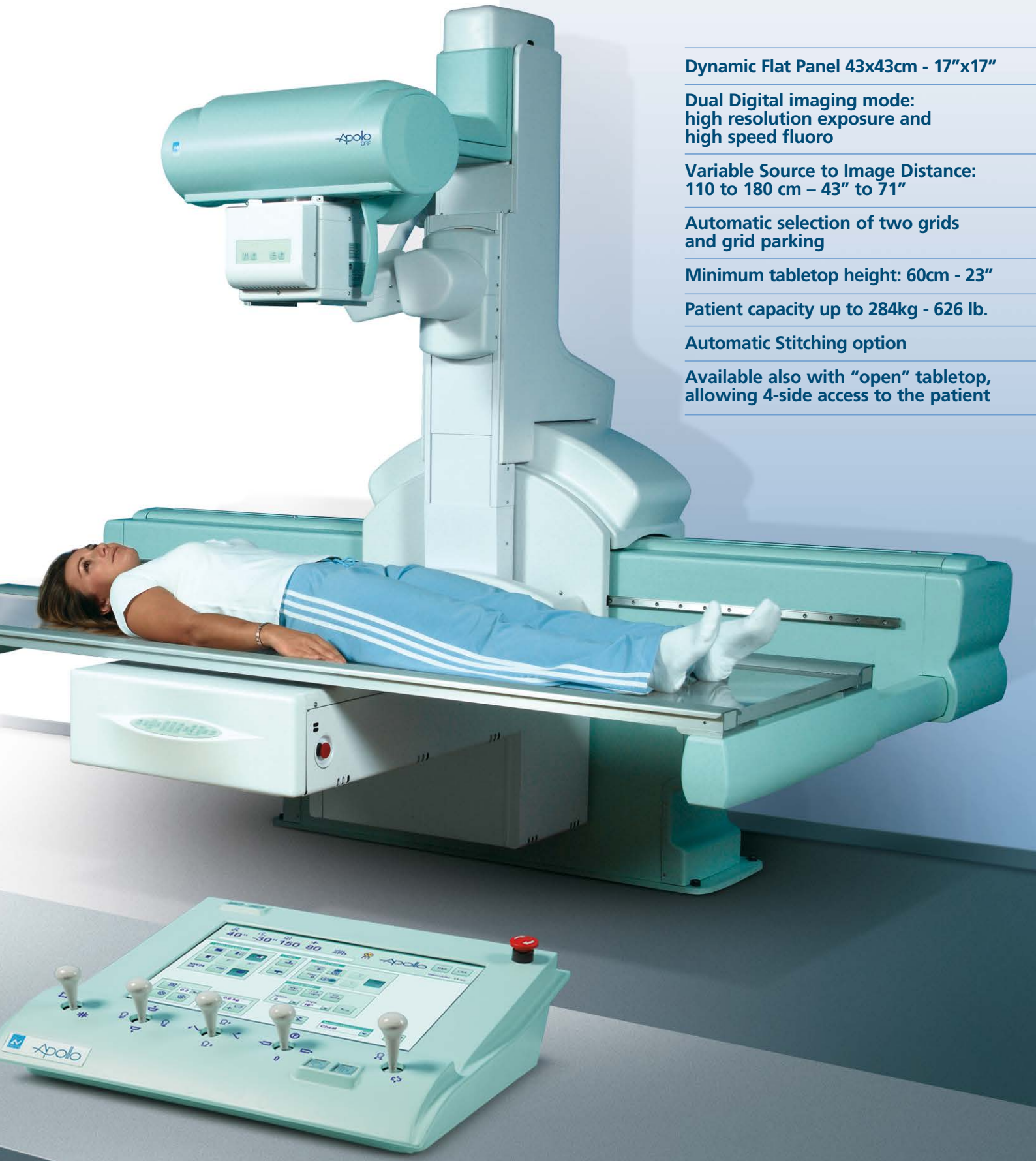
Using the same room for a wider scope of applications means higher room utilization, better space allocation and lower cost of maintenance and personnel training.

Images are displayed instantly on the integrated console and all delays due to cassettes or CR plates handling are eliminated.

The fully digital image processing and the high dynamic range compensates for exposure variances and allows extensive possibilities to optimize the exposure and processing parameters according to your preferences.



Apollo DRF



- Dynamic Flat Panel 43x43cm - 17”x17”
- Dual Digital imaging mode: high resolution exposure and high speed fluoro
- Variable Source to Image Distance: 110 to 180 cm – 43” to 71”
- Automatic selection of two grids and grid parking
- Minimum tabletop height: 60cm - 23”
- Patient capacity up to 284kg - 626 lb.
- Automatic Stitching option
- Available also with “open” tabletop, allowing 4-side access to the patient

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Dynamic Flat Panel Technology

The new family of dynamic Flat Panel detectors delivers an ***high frame rate*** for fluoro procedures, while for general radiography it delivers the same image quality of the widely used detectors for DR applications.

Flat Panel

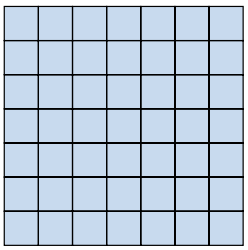
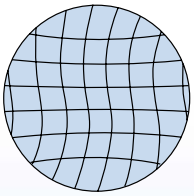


Image Intensifier



Flat Panel 43x43cm

The large 43x43cm - 17"x17" active area is suitable for examination of any anatomic region and provides almost 50% more coverage than a 16" Image Intensifier.

The combination of wide coverage and high image resolution extends the application of the fluoro suite to areas such as chest, pelvis and extremities, which can't be done with conventional image intensifier based systems.

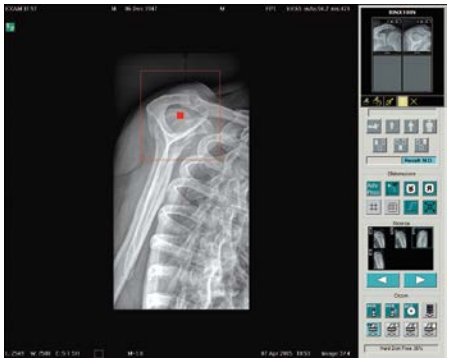
The high sensitivity of the flat panel technology, the use of low absorption materials and the grid parking capability, allow a consistent **dose reduction**, especially for pediatric applications.

The Flat Panel technology delivers sharp and accurate images to support your diagnosis and is not affected by geometric distortion which is typical of Image Intensifiers.

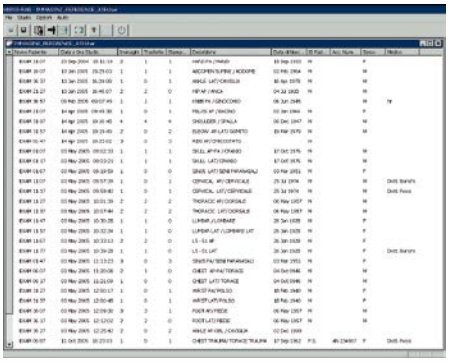
Workflow meets image quality

The predefined procedures library and automatic image optimization deliver outstanding images with minimum effort.

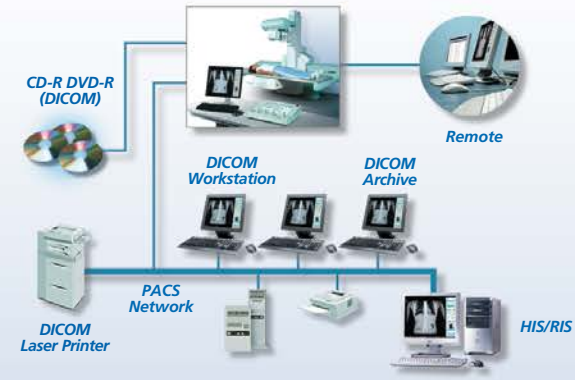
According to each user-selected procedure, exposure factors, image processing parameters and all **table positions are automatically preset**.
For instance, for upright chest exams the table will be tilted to vertical position, the SID moved to 180cm - 71" and the exposure area set to 35x43cm - 14"x17".

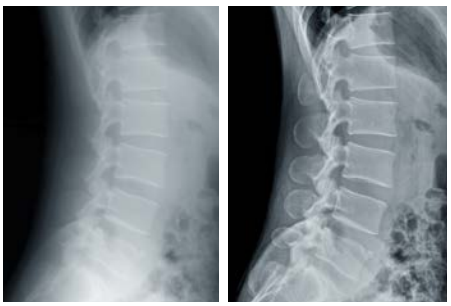


If your objective is a filmless environment, you can also create CD's and DVD's directly from the console with the **integrated CD/DVD writer**.
Should you require printouts of the most significant images, the **powerful print menu** optimizes the hardcopy utilization.



With its full **DICOM connectivity**, Apollo DRF easily integrates into PACS networks for quick and effective workflow management and image distribution.





Contrast harmonization

The contrast optimization function automatically compensates the differences in tissues absorption and **enhances the visibility of details** according to the exam and anatomic region, thereby reducing the need for manual window and levelling.

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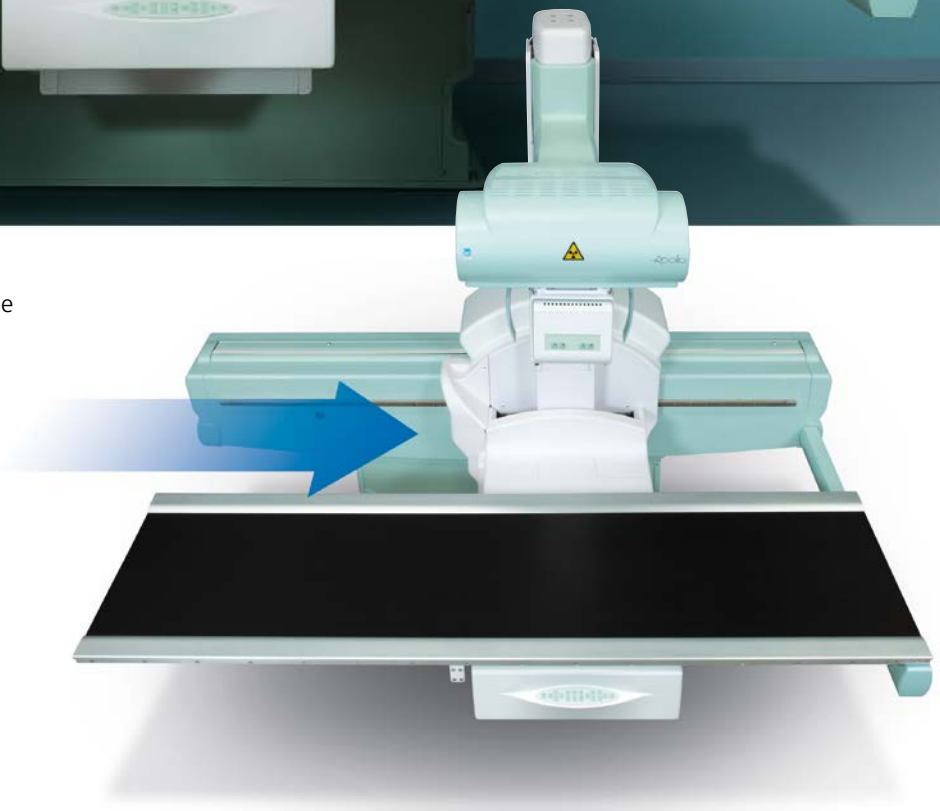
Apollo open

The new "open" tabletop extends the system's application to ***interventional procedures*** and allows ***maximum accessibility*** during patient's positioning.

The **Open** configuration of Apollo allows a **total access** to the patient from any side of the tabletop in a fast, comfortable and safe way.

This complete accessibility allows also to perform any **interventional procedure** that might become necessary, without any limitation; the operator has therefore the possibility to act rapidly and effectively.

The **carbon fiber** tabletop allows on the Apollo Open a maximum patient load of **230 kg** (507 lbs.) without limitations in movement, allowing the access also to bariatric patients.



We care for your patients

The outstanding versatility of Apollo DRF provides a perfect balance between ***operational efficiency*** and ***patient comfort***.

To facilitate the transfer and positioning of patients, the table **can be lowered down to 60cm - 23"** delivering immediate benefit for small patients or disabled persons.

The **AGS function - Auto Grid Selection -** automatically selects one of two grids to match the SID. The grid can also be automatically removed for non-grid applications, such as pediatrics or extremities.

When not in use, the compressor is **automatically parked** in a position where it doesn't interfere with the patient.

Full patient examination can be achieved **without longitudinal tabletop movement**, due to the large travel of the detector and the wide radio-transparent tabletop area.

The large tabletop size and the patient weight capacity up to 284kg - 626 lb. without restrictions of the table movements open the way to bariatric patients.

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Great versatility

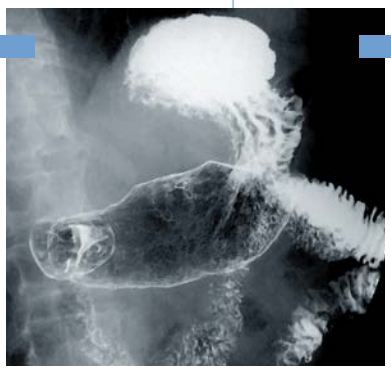
The use of one single detector for both fluoroscopy and radiography offers an unparalleled range of applications that includes all the most common general radiographic procedures, GI studies, tomography and vascular studies. Exams can be taken on the table with ***source to image distance up to 180cm - 71”***.

The high image resolution and the 180cm - 71” cm SID are the perfect combination for upright chest studies using a single detector, without having to switch to CR plates or conventional film-screen cassettes.

The large, square detector offers enough field coverage also for those exams such as the pelvis, that are not possible with the traditional Image intensifier.

Apollo DRF

Fluoroscopy exams also take benefit from the large active area of the detector that allows visibility of larger anatomic regions without patient repositioning.



The high frame rate makes for precise investigation of the upper GI tract and swallow studies.

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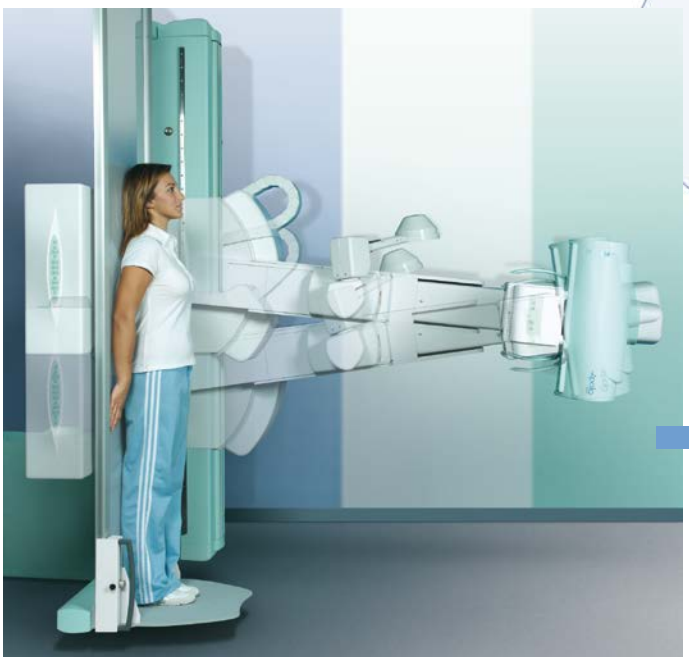
Great versatility

The footrest doubles as a patient seat when patient comfort and stability are required.

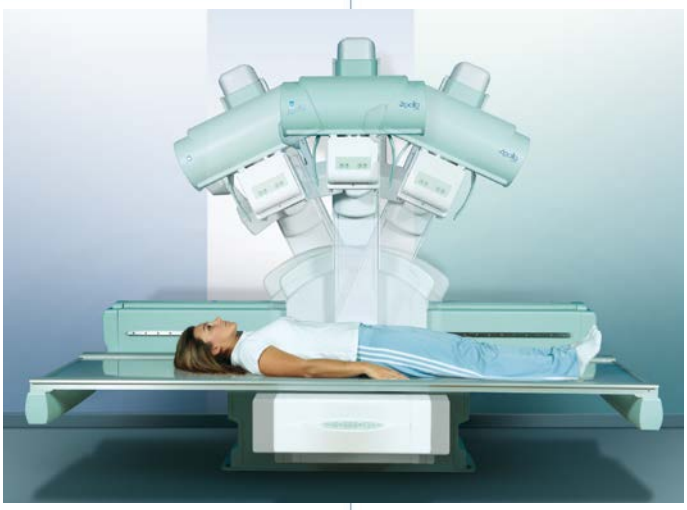
High quality extremities can be obtained with reduced x-ray dose making use of the automatic grid parking.

The detector travel reaches the tabletop extremities making it possible to perform weight bearing studies with the patient at minimal height from floor.

Stitching



The distortion-free images delivered by the flat panel detector are the perfect starting point for spine and extremity reconstruction using the optional Stitching function.



The column tilting mechanism without mechanical bar enables tomography and oblique projections in any table position, including the table extremities.

Digital Subtraction Angiography, available as an optional package for unit with Trixell Pixium RF 4343® detector, benefits from the large patient coverage without longitudinal repositioning

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Villa Sistemi Medicali long-standing experience at the service of our customers

Competence in x-ray systems

Villa Sistemi Medicali specialists can provide qualified information on new x-ray systems, room structure and installation and equipment positioning.

A wide range of equipment

Villa Sistemi Medicali is among the major European manufacturers of radiological systems and offers a wide range of products, such as:

- Digital radiographic and angiographic systems
- Remote controlled tables
- Classical tilting tables
- General rad floating tables
- Chest stands
- Mobile units
- Surgical C arms
- HF Generators
- Dental units: Intra-oral, panoramic and 3D

Our priority: Technical Service

A wide network of highly skilled service engineers ensures effective and reliable maintenance of all Villa Sistemi Medicali equipment installed worldwide.
Preventive maintenance programs and Service Contracts are adapted to the needs of our customers

Logistic services: a widespread presence

Spare parts, accessories and consumables are shipped daily by Villa Sistemi Medicali to all its customers worldwide.

Villa Sistemi Medicali Spa
20090 Buccinasco (Mi) Italy
Via delle Azalee, 3
Tel. +39 02 48859.1
Fax +39 02 4881.844
www.villasm.com
vsminfo@villasm.com

Villa Radiology Systems
91 Willenbrock Rd. B-1
Oxford, CT 06478
Tel. +1 203 262 8836
www.villaus.com

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